

# COMNAVSAFECEN

2004 Aviation Maintenance Safety Conference

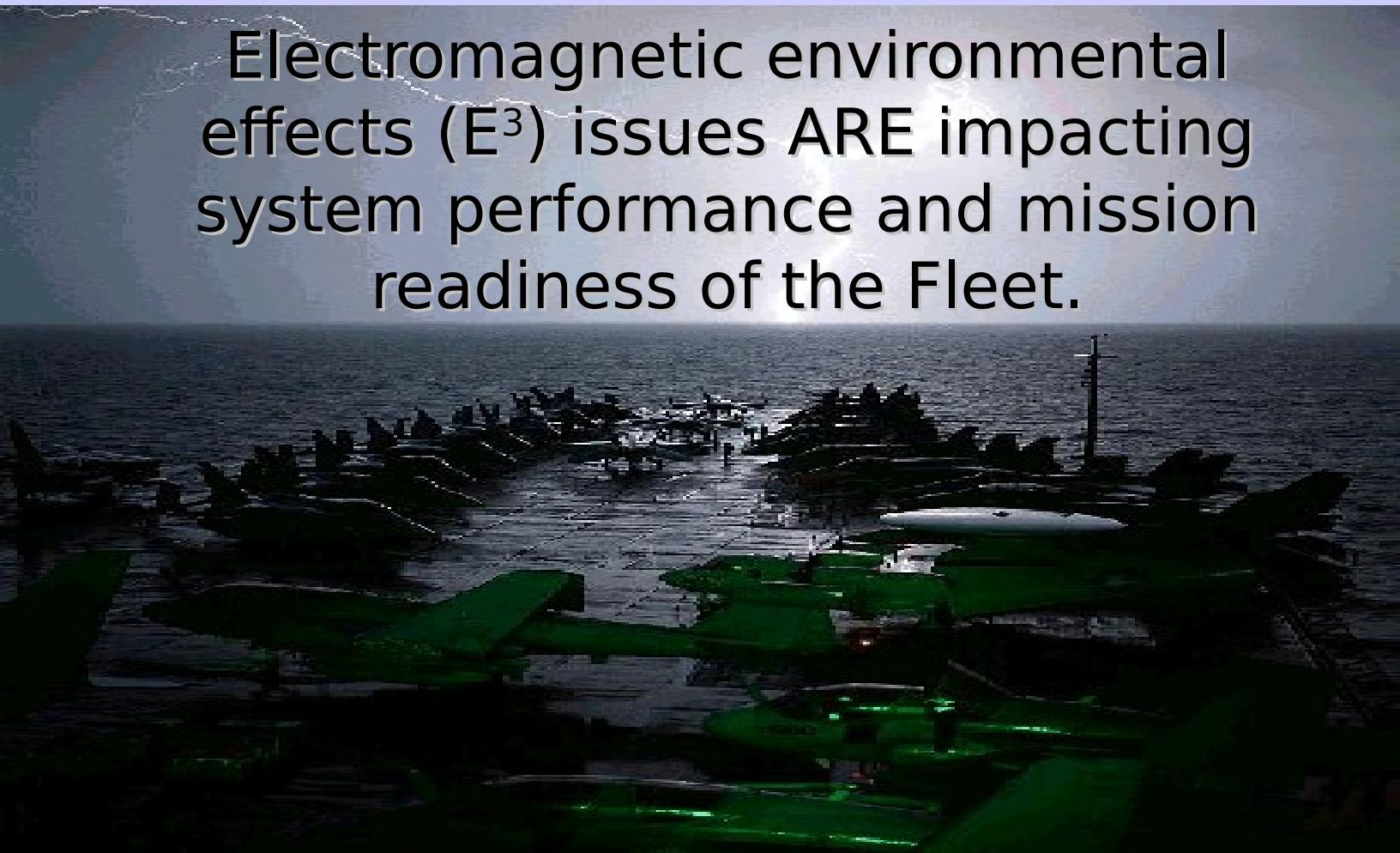
## ASEMICAP EMI/ESD

**Mr. Wayne Blanks  
Air Systems EMI  
Corrective Action  
Program  
(ASEMICAP)**



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# What's the Issue?



Electromagnetic environmental effects (E<sup>3</sup>) issues ARE impacting system performance and mission readiness of the Fleet.

# Electromagnetic Interference (VAQ-138)

HAZREP 03-03;  
DTG 110155Z MAY 08



# Fleet EMI Issues

- F/A-18 LATR/ARC-240
- H-60 Chip Light/Cargo Hook/ELT
- EA-6B/P-3 P-Static

1981 Total Problems  
371 Open

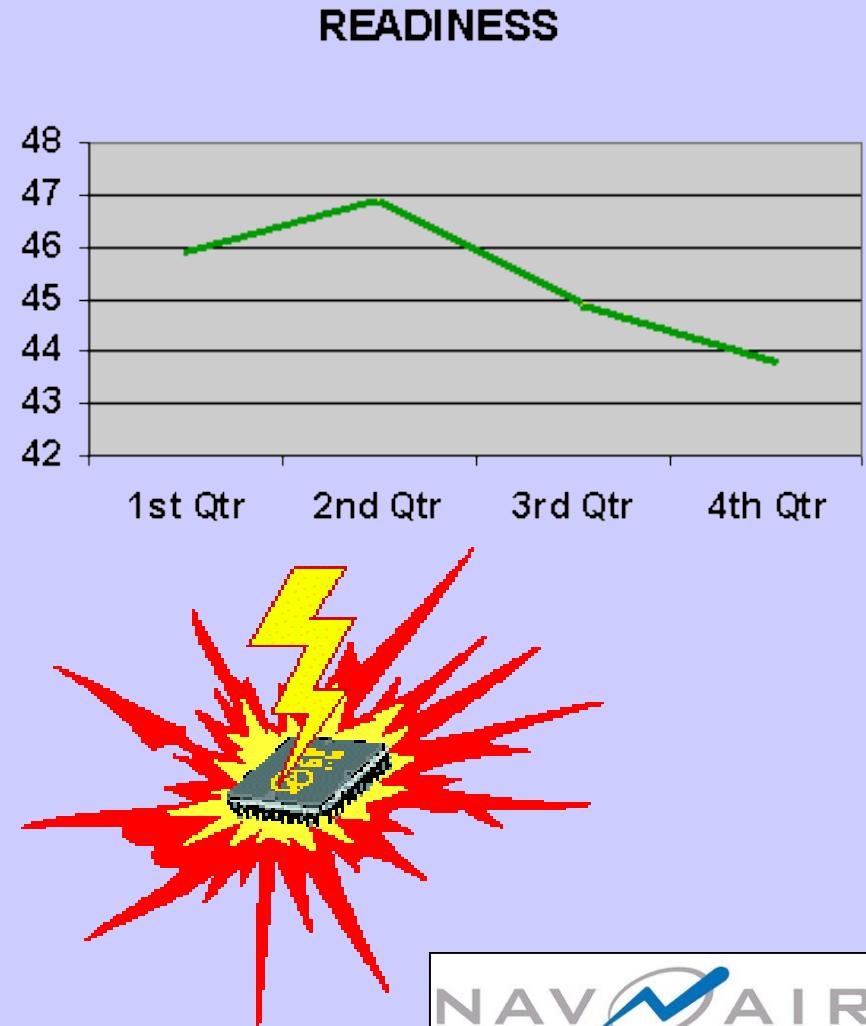
25 FLEET In work



# Electro-Static Discharge

ESD is present and does impact system performance, and ultimately readiness, in three significant ways:

- Reduced Readiness/Avail
- Unnecessary



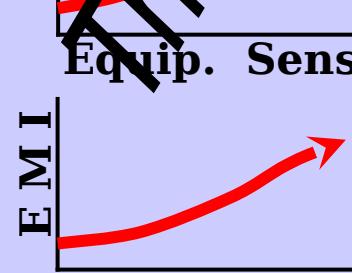
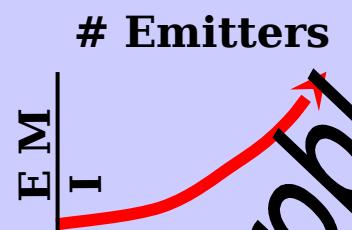
# Fleet ESD Issues

- Electrostatic Discharge Sensitive (ESDS) listings
- Maintenance Requirement Card (MRC) deletions

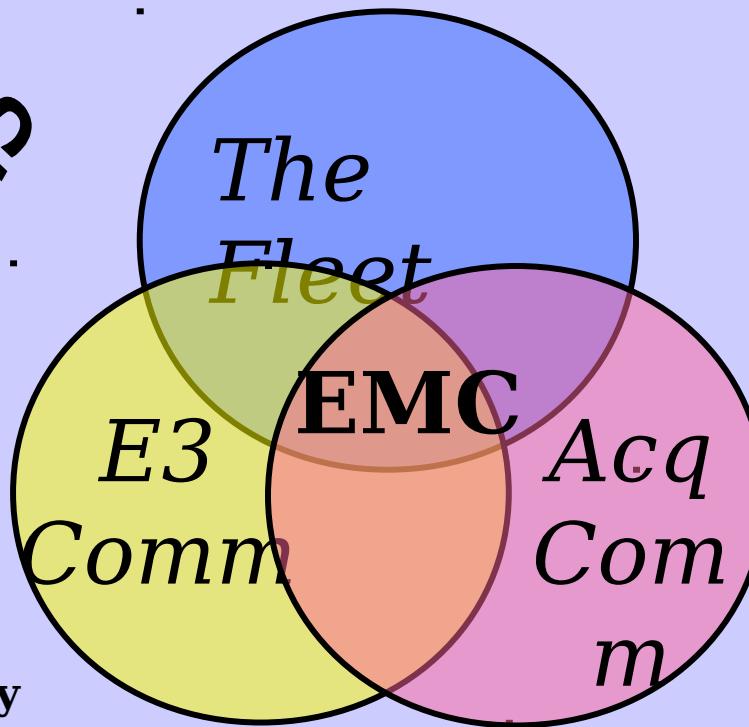


# FLEET EMC "CLIMATE"

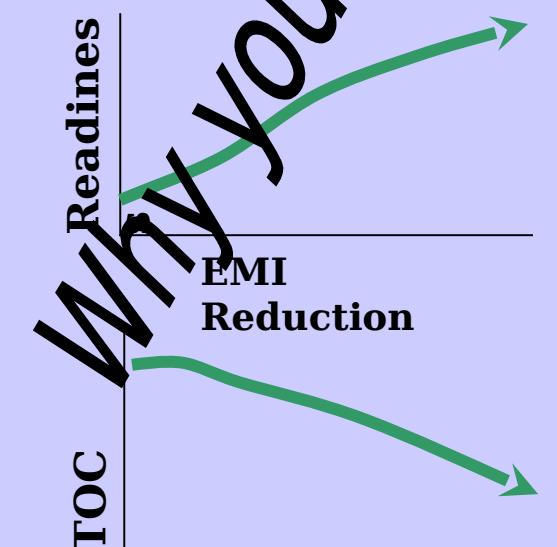
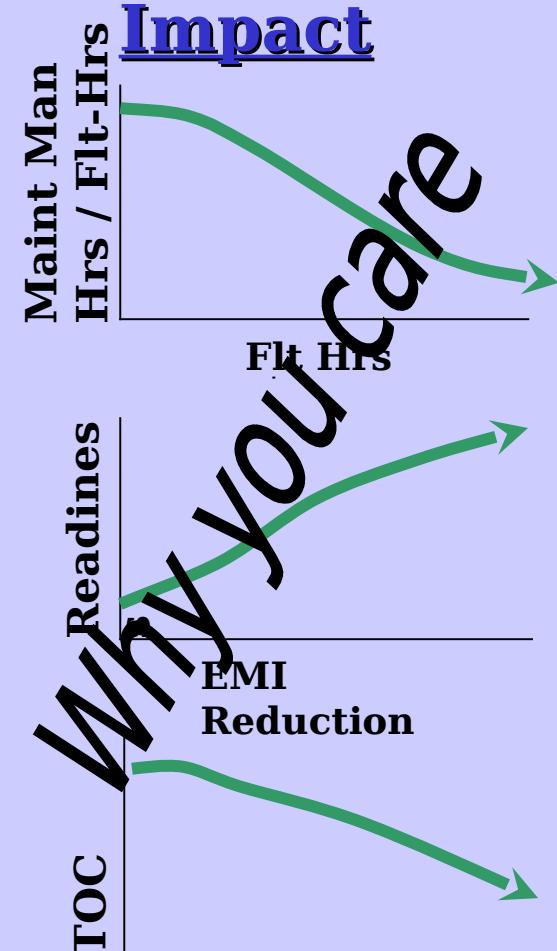
## Systemic Issues



*The problems*



## EMC Impact



# The Defense - A Formal E<sup>3</sup> Program

- AIR 4.1.7
- AIR 5.1.7
- ASEM/CAP
- FLEET E<sup>3</sup>

Awareness



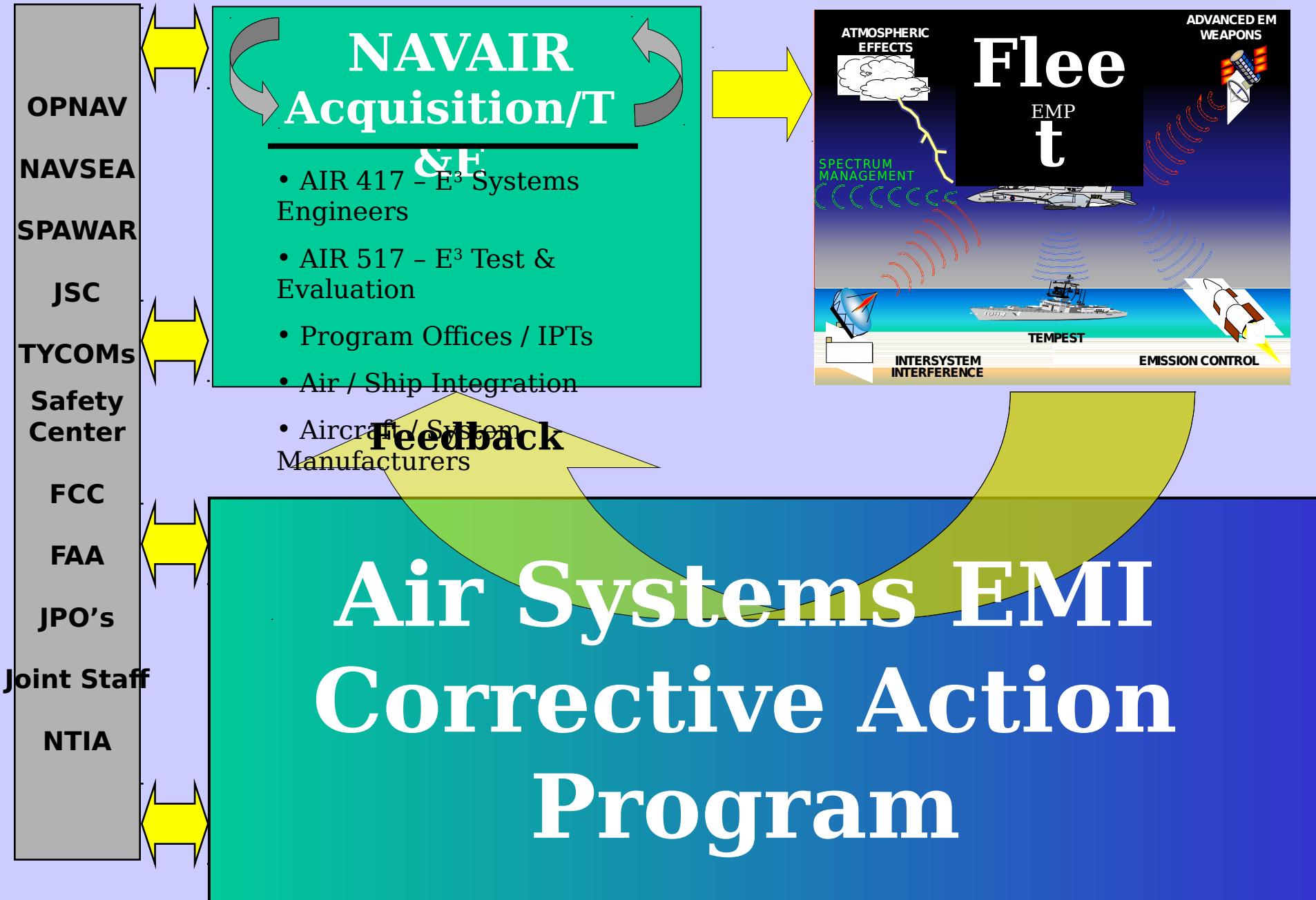
# ASEMICAP = Fleet Support

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A two-fold mission:

1. Direct engineering/technical support to resolve Fleet E<sup>3</sup> issues.
2. Improved Fleet E<sup>3</sup> awareness of Navy and Marine Corps Aviation Activities.





# Fleet Support Specialists (FSS)

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Now let me get this straight...  
You're from NAVAIR and you're here to help.  
SO WHAT!



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# The Rub - Fleet E<sup>3</sup> Awareness

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Increased supervisory and deck-plate awareness directly leads to improved aircraft and system performance.

This directly translates to improved performance,



# Support Services

- ✓ Direct Engineering Support
- ✓ Problem Management System
- ✓ E<sup>3</sup> Awareness Presentations
- ✓ Web Site

**ASEMICAP Home page - Microsoft Internet Explorer**

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**ASEMI**  
NAVAL AIR SYSTEMS COMMAND



Electromagnetic Interference Corrective Action Program (ASEMICAP). ASEMICAP is the Naval Air Systems Command (NAVAIR) Program dedicated to reducing and controlling EMI in the Fleet. The ASEMICAP team provides engineering and technical support directly to Fleet units to resolve EMI problems and represents Fleet interests within the acquisition community. ASEMICAP ensures the Electromagnetic Environmental Effects (E3) hardness of operational aircraft systems, subsystems, and equipment throughout their life-cycles.

For more information, visit [www.navair.navy.mil](http://www.navair.navy.mil), and [www.navjobs.com](http://www.navjobs.com). We are committed to ensuring this website is accessible to everyone. If you have any difficulty using this website, please contact [sentry.com](http://www.sentry.com). Please read our [disclaimer](#). Please read our [Privacy and Security Notice](#).





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# Direct Engineering Support

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Respond, identify, and mitigate Fleet SOO & MC EMI problems.

Onsite technical assistance for E<sup>3</sup> issues and OPNAV 4790/ NAVAIR 2450 series compliance.

Access to NAVAIR Engineering support and platform-specific expertise.

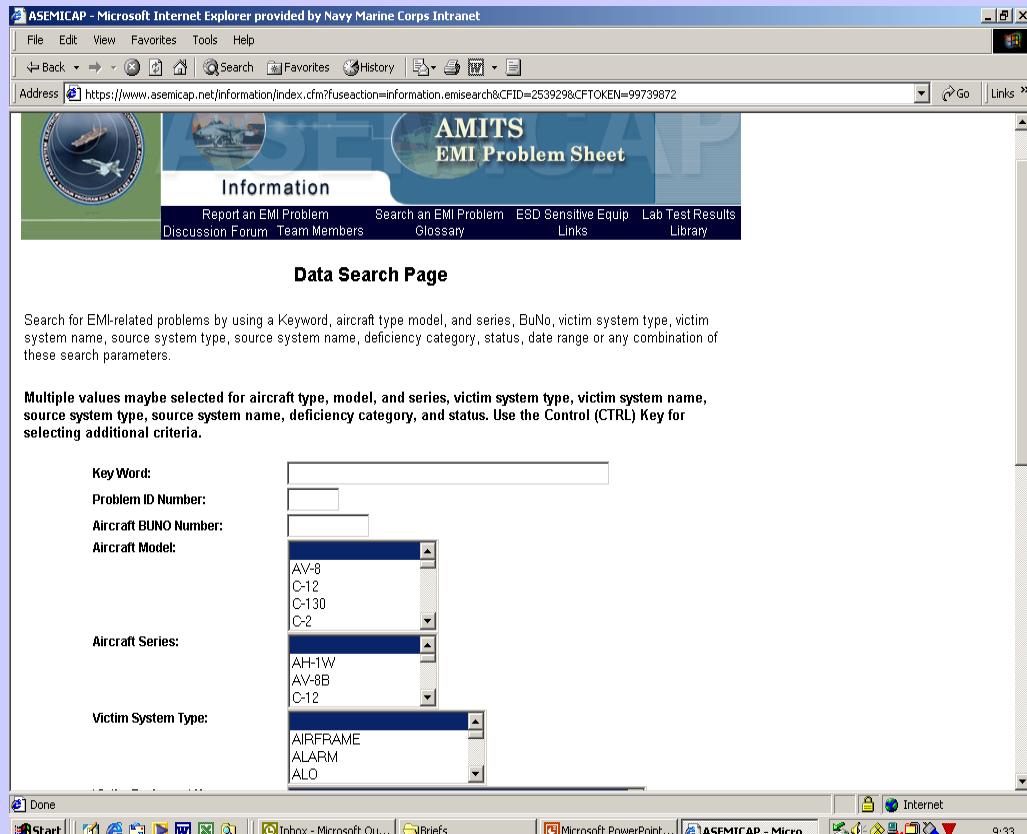


# Problem Management System

Web-based data mgmt tool for collection and processing of E<sup>3</sup> issues.

Easily sorted by T/M/S or locate by keyword.

Not a registered user? Info is readily available to you.

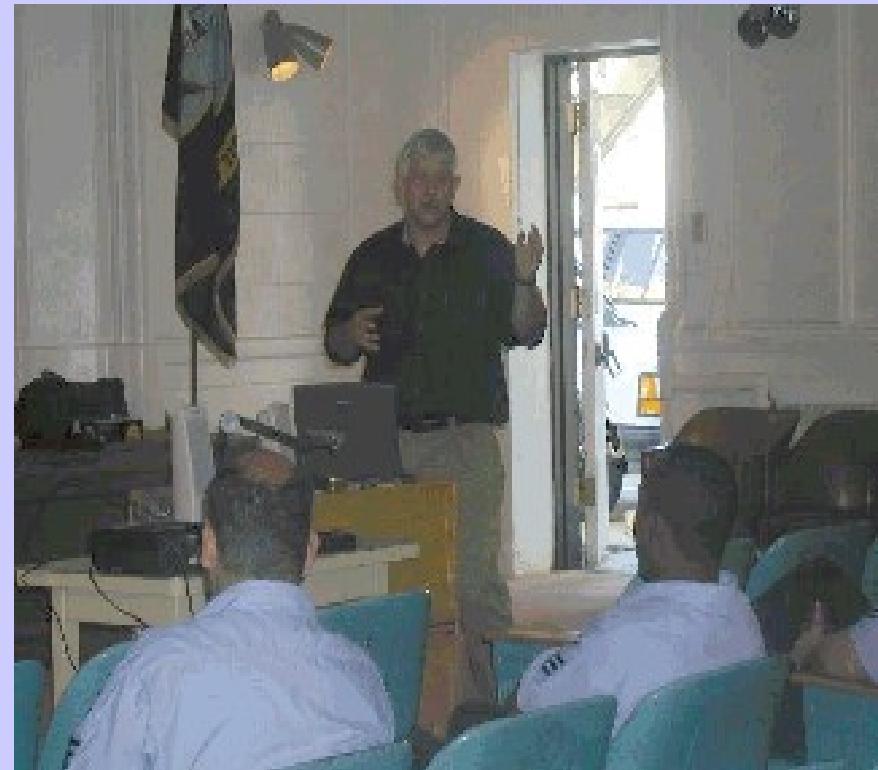


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# E<sup>3</sup> Awareness Presentations

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TYCOM-supported deckplate training provided by former Fleet personnel with Naval Aviation maintenance and E<sup>3</sup> experience.



Training available includes ESD, EMI, P-static, & Cockpit EMI

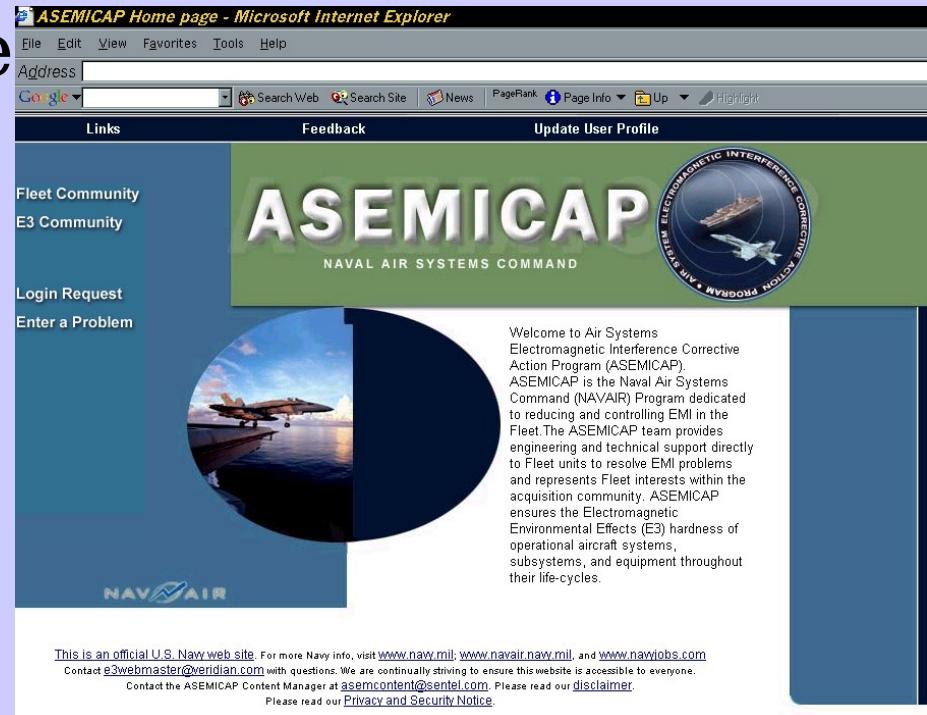


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24/7 access to E<sup>3</sup>-related information and support.

## Highlights:

- Problem database
- E<sup>3</sup> awareness materials
- ASEMICAP Newsletter
- Support



Ok, I'm listenin' ...  
what's the bottom line?



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# Summary

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- Electromagnetic environmental effects occur and DO have a very real operational impact.
- Negative effects CAN be mitigated in most cases.
- ASEMICAP is the Fleet's resource for E3 support.
- **YOU are the key!!**



# Questions?



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